

LINKSYS® by Cisco



USER GUIDE

Wireless ADSL2+ Modem Router

Models: WAG120N, WAG160N v2, WAG320N

About This Guide

Icon Descriptions

While reading through the User Guide you may see various icons that call attention to specific items. Below is a description of these icons:



NOTE: This check mark indicates that there is a note of interest and is something that you should pay special attention to while using the product.



WARNING: This exclamation point indicates that there is a caution or warning of potential risk of bodily injury and/or it is something that could damage your property or product.



WEB: This globe icon indicates a noteworthy website address or e-mail address.

Online Resources

Website addresses in this document are listed without **http://** in front of the address because most current web browsers do not require it. If you use an older web browser, you may have to add **http://** in front of the web address.

Resource	Website
Linksys	www.linksysbycisco.com
Linksys International	www.linksysbycisco.com/international
Glossary	www.linksysbycisco.com/glossary
Network Security	www.linksysbycisco.com/security
Web Technical Support	www.linksysbycisco.com/support

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Chapter 1:

Product Overview

Thank you for choosing the Wireless ADSL2+ Modem Router. This device lets you access the Internet via a wireless connection or through one of its four switched ports. You can also use it to share resources such as computers, printers and files. A variety of security features, such as WPA2™ security, a Stateful Packet Inspection (SPI) firewall and NAT technology, help to protect your data and your privacy while online. Configuration is easy using the provided browser-based utility.

Front Panel



 **POWER** **Power** (WAG120N: Green/Amber; WAG160N v2 and WAG320N: Green/Red) The Power LED is continuously lit green while the device is powered on. The LED is lit amber (WAG120N) or red (WAG160N v2 and WAG320N) if a POST (Power On Self Test) failure or device malfunction occurs.

 **ETHERNET** **Ethernet 1-4** (Green) These numbered LEDs, one for each of the numbered ports on the Modem Router's back panel, serve two purposes. If the LED is continuously lit, the Modem Router is successfully connected to a device through that port. It flashes to indicate network activity over that port.



NOTE: The Ethernet 1 LED is lit amber when the WAN link is established on that port.

 **Wi-Fi Protected Setup™ Button** (WAG120N: Green/Amber; WAG160N v2 and WAG320N: Green) Press this button to have Wi-Fi Protected Setup™ search for your Wi-Fi Protected Setup™-supported wireless device. The LED is continuously lit green when a Wi-Fi Protected Setup™ connection is successfully established. The LED blinks slowly while Wi-Fi Protected Setup™ is setting up a connection, and is lit amber (WAG120N) or blinks rapidly (WAG160N v2 and WAG320N) if an error occurs. The LED is off when Wi-Fi Protected Setup™ is idle.



NOTE: Wi-Fi Protected Setup™ is a feature that makes it easy to configure your wireless network and its security settings.



USB (WAG320N only) (Green) The USB LED lights up when a USB device is connected to the Modem Router through the USB port.



Wireless (Green) The Wireless LED lights up when the wireless feature is enabled. It flashes when the Modem Router is actively sending or receiving data over the network.



DSL (Green) The DSL LED lights up whenever there is a successful DSL connection. The LED flashes green while the Modem Router is establishing the ADSL connection.



Internet (Green/Red) The Internet LED lights up green and stays on when a connection is made through the Internet port. It flashes to indicate network activity over the Internet port. The LED is lit red when an authentication error occurs.

Back Panel



DSL The DSL port connects to the ADSL line.



Ethernet 4, 3, 2, 1 The Ethernet ports (4, 3, 2, 1) connect the Modem Router to wired computers and other Ethernet network devices.



NOTE: The Ethernet 1 port can also be configured as the WAN port. To do this, access the Web-based utility (refer to ["Chapter 3: Advanced Configuration" on page 4](#)), then select the Setup > Ethernet tab.



USB (WAG320N only) The USB port connects the Modem Router to a hard drive or flash-based USB storage device.



Reset There are two ways to reset the Modem Router's factory defaults. Either press and hold the Reset button for approximately five seconds, or restore the defaults from the Administration > Factory Defaults screen of the Modem Router's web-based utility.



Power The Power port is where you will connect the power adapter.



On/Off Button Press the On/Off button to turn power to the device on or off.

Placement Positions

There are two ways to physically install the device. The first way is to place the device horizontally on a surface. The second way is to mount the device on a wall.

The best place for the device is usually at the center of your wireless network, within range of all of your wireless devices.

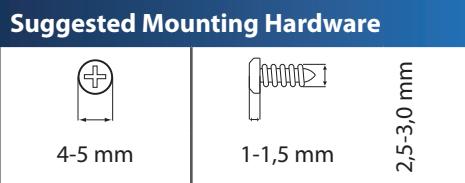
Horizontal Placement

The device has four rubber feet on its bottom panel. Place the device on a level surface near an electrical outlet.

Wall-Mounting Placement

The device has two wall-mount slots on its bottom panel. The distance between the slots is 152 mm (6 inches).

Two screws are needed to mount the device.



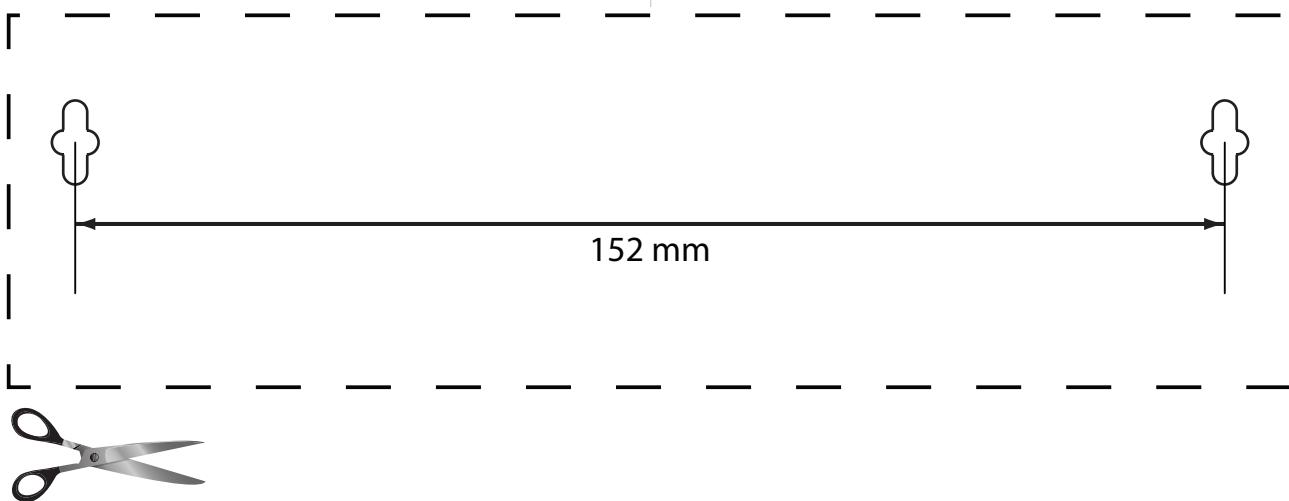
†Note: Mounting hardware illustrations are not true to scale.



NOTE: Cisco is not responsible for damages incurred by insecure wall-mounting hardware.

Follow these instructions:

1. Determine where you want to mount the device. Make sure that the wall you use is smooth, flat, dry, and sturdy. Also make sure the location is within reach of an electrical outlet.
2. Drill two holes into the wall. Make sure the holes are 152 mm (6 inches) apart.
3. Insert a screw into each hole and leave 3 mm (0,12 inches) of its head exposed.
4. Maneuver the device so the wall-mount slots line up with the two screws.
5. Place the wall-mount slots over the screws and slide the device down until the screws fit snugly into the wall-mount slots.



Wall Mounting Template

Chapter 2: Wireless Security Checklist

Wireless networks are convenient and easy to install, so homes with high-speed Internet access are adopting them at a rapid pace. Because wireless networking operates by sending information over radio waves, it can be more vulnerable to intruders than a traditional wired network. Like signals from your cellular or cordless phones, signals from your wireless network can also be intercepted. Since you cannot physically prevent someone from connecting to your wireless network, you need to take some additional steps to keep your network secure.



1. Change the default wireless network name or SSID

Wireless devices have a default wireless network name or Service Set Identifier (SSID) set by the factory. This is the name of your wireless network, and can be up to 32 characters in length. Linksys by Cisco wireless products use **linksys** as the default wireless network name. You should change the wireless network name to something unique to distinguish your wireless network from other wireless networks that may exist around you, but do not use personal information (such as your Social Security number) because this information may be available for anyone to see when browsing for wireless networks.



2. Change the default password

For wireless products such as access points, routers, and modem routers, you will be asked for a password when you want to change their settings. These devices have a default password set by the factory. The default password is **admin**. Hackers know these defaults and may try to use them to access your wireless device and change your network settings. To thwart any unauthorized changes, customize the device's password so it will be hard to guess.



3. Enable MAC address filtering

Linksys by Cisco routers and modem routers give you the ability to enable Media Access Control (MAC) address filtering. The MAC address is a unique series of numbers and letters assigned to every networking device. With MAC address filtering enabled, wireless network access is provided solely for wireless devices with specific MAC addresses. For example, you can specify the MAC address of each computer in your home so that only those computers can access your wireless network.



4. Enable encryption

Encryption protects data transmitted over a wireless network. Wi-Fi Protected Access™ (WPA™/WPA2™) and Wired Equivalency Privacy (WEP) offer different levels of security for wireless communication.

A network encrypted with WPA™/WPA2™ is more secure than a network encrypted with WEP, because WPA™/WPA2™ uses dynamic key encryption. To protect the information as it passes over the airwaves, you should enable the highest level of encryption supported by your network equipment.

WEP is an older encryption standard and may be the only option available on some older devices that do not support WPA™.

General Network Security Guidelines

Wireless network security is useless if the underlying network is not secure.

- Password protect all computers on the network and individually password protect sensitive files.
- Change passwords on a regular basis.
- Install anti-virus software and personal firewall software.
- Disable file sharing (peer-to-peer). Some applications may open file sharing without your consent and/or knowledge.

Additional Security Tips

- Keep wireless routers, access points, or modem routers away from exterior walls and windows.
- Turn wireless routers, access points, or modem routers off when they are not being used (at night, during vacations).
- Use strong passphrases that are at least eight characters in length. Combine letters and numbers to avoid using standard words that can be found in the dictionary.



WEB: For more information on wireless security, visit www.linksysbycisco.com/security

Chapter 3:

Advanced Configuration

After you finish running the Setup Wizard on the Setup CD-ROM, the device is ready for use. To change the device's advanced settings, access the Configuration Utility via a web browser on a computer connected to the device.



NOTE FOR USERS IN NEW ZEALAND: Refer to the Note in **Setup > Basic Setup, page 5** for setup instructions specific to your country.

How to Access the Utility

Launch the web browser on your computer, and enter the device's default IP address, **192.168.1.1**, in the *Address* field. Then, press **Enter**.

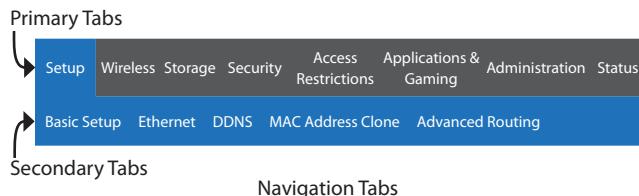
A login screen appears. Use the default user name and password, **admin**, unless you changed them when you ran the Setup Wizard. (You can set a new user name and password from the Administration tab's *Management* screen.) Click **OK** to continue.



If you are unable to log in, press the Reset button on the back panel for at least 5 seconds, then wait for the device to reset and try again.

Using the Utility

Immediately after login, the *Basic Setup* screen appears. Near the top of the screen is a bar with selectable tabs. Use these tabs to navigate within the Utility. The **primary tabs** indicate the Utility's main configuration categories. Each primary tab has one or more **secondary tabs** that provide access to the primary tab's configuration screens.



To access a screen, click the appropriate primary tab, then click the appropriate secondary tab. The screen will appear, with its primary and secondary tabs highlighted.

List of Screens in the Utility

The screens are organized hierarchically as listed below. (Some screens may not apply to all models.)

Setup Tab

- Setup > Basic Setup
- Setup > Ethernet
- Setup > DDNS
- Setup > MAC Address Clone
- Setup > Advanced Routing

Wireless Tab

- Wireless > Basic Wireless Settings
- Wireless > Wireless Security
- Wireless > Wireless MAC Filter
- Wireless > Advanced Wireless Settings

Storage Tab (WAG320N Only)

- Storage > Disk Management
- Storage > Shared Folder
- Storage > Administration
- Storage > Media Server

Security Tab

- Security > Firewall
- Security > VPN Passthrough

Access Restrictions Tab

- Access Restrictions > Internet Access Policy

Applications & Gaming Tab

- Applications & Gaming > Single Port Forwarding
- Applications & Gaming > Port Range Forwarding
- Applications & Gaming > Port Range Triggering
- Applications & Gaming > DMZ
- Applications & Gaming > QoS

Administration Tab

- Administration > Management
- Administration > Reporting
- Administration > Diagnostics
- Administration > Back Up & Restore
- Administration > Factory Defaults
- Administration > Firmware Upgrade
- Administration > Language

Status Tab

- Status > Modem Router
- Status > Local Network
- Status > Wireless Network
- Status > DSL Connection

Setup Tab

The Setup tab provides the device's basic setup functions. For detailed information on the Setup tab, refer to the Utility's online help pages.

Setup > Basic Setup

The *Basic Setup* screen allows you to change the device's general settings. The following connection types (encapsulations) are available:

- RFC 2364 PPPoA
- RFC 2516 PPPoE
- RFC 2684 Routed
- IPoA
- RFC 2684 Bridged - Dynamic IP Address
- RFC 2684 Bridged - Static IP Address
- Bridge Mode Only



NOTE FOR USERS IN NEW ZEALAND: To set up the device, follow these instructions:

1. Access the *Setup > Basic Setup* screen.
2. Select **RFC 2364 PPPoA** from the Encapsulation drop-down menu.
3. For the Virtual Circuit ID, enter **0** for the VPI and **100** for the VCI.
4. Select **VC** for Multiplexing.
5. Select **Multimode** from the DSL Modulation drop-down menu.
6. Enter your User Name and Password details from your ISP.
7. Click **Save Settings**.

Setup > Ethernet

The *Ethernet* screen allows you to configure the device's Ethernet settings. It also allows you to set up the first Ethernet port as a WAN port.

Setup > DDNS

The *DDNS* screen allows you to assign a fixed host and domain name to a network computer that has been assigned a dynamic Internet IP address. This is useful when you are hosting your own website, FTP server, or other server behind the device.

Setup > MAC Address Clone

Some service providers require you to register a MAC address in order to access the Internet. The *MAC Address Clone* screen lets you use the MAC address of a device that has already been registered with your service provider, by copying that MAC address to the device.

Setup > Advanced Routing

The *Advanced Routing* screen allows you to configure the device's advanced routing functions, such as operating mode, dynamic mode, and static routing.

Wireless Tab

The Wireless tab allows you to configure the device's wireless functions.

For detailed information on the Wireless tab, refer to the Utility's online help pages.

Wireless > Basic Wireless Settings

The *Basic Wireless Settings* screen allows you to set up a network with Wi-Fi Protected Setup™, change the radio band, select the network mode, change the wireless network name (SSID), change the wireless channel and disable the SSID broadcast.

Wireless > Wireless Security

The *Wireless Security* screen allows you to configure the security of your wireless network(s). It allows you to select from a number of security modes, such as WPA2.

Wireless > Wireless MAC Filter

The *Wireless MAC Filter* screen allows you to control (block or allow) Internet access by individual devices on your wireless network by specifying their MAC addresses.

Wireless > Advanced Wireless Settings

The *Advanced Wireless Settings* screen allows you to configure the device's advanced wireless functions.

Storage Tab (WAG320N Only)

The Storage tab allows you to configure the settings for an optional external USB storage device, such as a flash drive or hard disk drive.

For detailed information on the Storage tab, refer to the Utility's online help pages.

Storage > Disk Management

The *Disk Management* screen displays information on an attached USB storage device, and allows you to perform basic management functions on the device. It also provides information on the attached USB disk, allows for a blank disk to be formatted, and enables safe removal of the attached disk.

Storage > Shared Folder

The *Shared Folder* screen allows you to manage the shared folders on an external USB storage device. A shared folder

is a directory on the device that a user can access through the network.

Storage > Administration

The *Administration* screen allows you to configure basic storage settings and manage the device's users.

Storage > Media Server

The *Media Server* screen allows you to configure the device's built-in media server, and to select the folders to scan for content.

Security Tab

The Security tab allows you to enhance the security of your network.

For detailed information on the Security tab, refer to the Utility's online help pages.

Security > Firewall

The *Firewall* screen allows you to configure a firewall that can filter out various types of unwanted traffic on the device's local network.

Security > VPN Passthrough

The *VPN Passthrough* screen allows you to configure the device's VPN passthrough feature. This feature lets VPN tunnels using the IPSec, L2TP, or PPTP protocols to pass through the device's firewall.

Access Restrictions Tab

The Access Restrictions tab allows you to configure the Internet access restrictions for each device in your network.

For detailed information on the Access Restrictions tab, refer to the Utility's online help pages.

Access Restrictions > Internet Access Policy

The *Internet Access Policy* screen allows you to define policies that are used to block or allow specific kinds of Internet usage and traffic, such as Internet access, designated applications, websites, and inbound traffic during specific days and times, and for a specified list of devices in your network.

Applications & Gaming Tab

The Applications & Gaming tab allows you to configure functions such as port forwarding and quality of service that may be necessary for special applications such as hosting web servers, ftp servers, and e-mail servers on your network, or other specialized internet applications such as videoconferencing or online gaming.

For detailed information on the Applications & Gaming tab, refer to the Utility's online help pages.

Applications & Gaming > Single Port Forwarding

The *Single Port Forwarding* screen allows you to set up port forwarding for a single port. You should assign static IP addresses to the destination computers before you use this feature.

Applications & Gaming > Port Range Forwarding

The *Port Range Forwarding* screen allows you to set up port forwarding for a range of ports. You should assign static IP addresses to the destination computers before you use this feature.

Applications & Gaming > Port Range Triggering

The *Port Range Triggering* screen allows you to set up port triggering. When port triggering is configured, the device watches for specified port numbers in outgoing data. When a match is found, the device records the sending computer's IP address so that when the requested data returns, it can be sent to the proper computer.

Applications & Gaming > DMZ

The *DMZ* screen allows you to expose one network user to the Internet for use of a special-purpose service such as Internet gaming or video conferencing. DMZ hosting forwards all the ports at the same time to one computer. You should assign static IP addresses to the destination computers before you use this feature.

Applications & Gaming > QoS

The *QoS* screen allows you to specify priorities for different types of traffic. Lower priority traffic will be slowed down to allow greater throughput or less delay for high priority traffic.

Administration Tab

The Administration tab allows you to configure the device's administrative functions.

For detailed information on the Administration tab, refer to the Utility's online help pages.

Administration > Management

The *Management* screen allows you to manage specific functions for access and security.



NOTE ON CISCO WEB ASSISTANT OPTION (not on all models): If you see an "error code 404" message (indicating that you entered an invalid web address), the Cisco Web Assistant will appear and automatically run a search based on the keywords in the web address. This feature can be enabled or disabled from this screen.



NOTE ON TREND MICRO OPTION (not on all models): Trend Micro ProtectLink Gateway is a hosted security service that stops spam and filters URLs to prevent unwanted content from passing through your router. The Email Protection is the hosted messaging security solution provided by Trend Micro InterScan Messaging Hosted Security (IMHS). This feature can be enabled or disabled from this screen.

Administration > Reporting

The *Reporting* screen allows you to configure system event logging and to configure sending of e-mail alerts when a Denial of Service attack is detected.

Administration > Diagnostics

The *Diagnostics* screen allows you to perform a ping test to check the status of your Internet connection.

Administration > Back Up & Restore

The *Back Up & Restore* screen allows you to back up and restore the configuration settings of your device.

Administration > Factory Defaults

The *Factory Defaults* screen allows you to restore the factory defaults of the device. All savings you have saved will be lost



NOTE: Restoring the factory defaults causes all settings you have previously saved to be lost.

Administration > Firmware Upgrade

The *Firmware Upgrade* screen allows you to upgrade the device's firmware.

Administration > Language

The *Language* screen allows you to select an available language for the utility.

Status Tab

The Status tab allows you to display status information.

For detailed information on the Status tab, refer to the Utility's online help pages.

Status > Modem Router

The *Modem Router* screen displays information about the device and its current settings. The on-screen information will vary depending on the Internet Connection Type you use.

Status > Local Network

The *Local Network* screen displays the status of your Local Area Network.

Status > Wireless Network

The *Wireless Network* screen displays some basic information about the wireless network of the device.

Status > DSL Connection

The *DSL Connection* screen displays the status of your DSL connection.

Appendix A: Troubleshooting

Your computer cannot connect to the Internet.

Follow the instructions until your computer can connect to the Internet:

- Make sure that the Modem Router is powered on. The Power LED should be green and not flashing.
- If the Power LED is flashing, then power off all of your network devices, including the Modem Router and computers. Then power on each device in the following order:
 1. Modem Router
 2. Computer
- Check the LEDs on the device's front panel. Make sure the Power, DSL, and at least one of the numbered Ethernet LEDs are lit. If they are not, then check the cable connections. The computer should be connected to one of the Ethernet ports numbered 1-4 on the device, and the device's DSL port must be connected to the ADSL line.

When you double-click the web browser, you are prompted for a user name and password. If you want to get rid of the prompt, follow these instructions.

Launch the web browser and perform the following steps (these steps are specific to Internet Explorer but are similar for other browsers):

1. Select **Tools > Internet Options**.
2. Click the **Connections** tab.
3. Select **Never dial a connection**.
4. Click **OK**.

You are using a static IP address and cannot connect.

Refer to Windows Help and change your Internet Protocol (TCP/IP) Properties to Obtain an IP address automatically.

The computer cannot connect wirelessly to the network.

Make sure the wireless network name or SSID is the same on both the computer and the device. If you have enabled wireless security, then make sure the same security method and key are used by both the computer and the device.

You need to modify the basic settings on the deviceRouter.

Run the Setup Wizard on the Setup CD-ROM.

You need to modify the advanced settings on the device.

Open the web browser (for example, Internet Explorer or Firefox), and enter the device's IP address in the address field (the default IP address is **192.168.1.1**). When prompted, complete the *User name* and *Password* fields (the default user name and password is **admin**). Click the appropriate tab to change the settings



WEB: If your questions are not addressed here, refer to the website, www.linksysbycisco.com/support

Appendix B: Specifications

WAG120N

Standards	WLAN: 802.11n draft 2.0, 802.11g, 802.11b Ethernet: 802.3, 802.3u ADSL: T1.413i2, G.992.1 (G.DMT), G.992.2 (G.Lite), G.992.3 (ADSL2), G.992.5 (ADSL2+) for Annex A, B, M, L, U-R2 for Annex B
Ports	DSL, Ethernet (1-4), Power
Buttons	On/Off, Reset, Wi-Fi Protected Setup™
LEDs	Power, Ethernet (1-4), Security, Wireless, DSL, Internet
Cabling Type	CAT5, RJ-11 (for Annex A), RJ-45 (for Annex B)
Antennas	2 Internal
Modulations	802.11b: CCK/QPSK, BPSK 802.11g: OFDM/BPSK, QPSK, 16-QAM, 64-QAM 802.11n: OFDM/BPSK, QPSK, 16-QAM, 64-QAM
Transmit Power	802.11b: 17,0 ± 1,0 dBm 802.11g: 15,0 ± 1,0 dBm 802.11n: 13,0 ± 1,5 dBm
Receive Sensitivity	-80 dBm (typical) @ 11 Mbps -70 dBm (typical) @ 54 Mbps -61 dBm (typical) @ 130 Mbps -61 dBm (typical) @ 270 Mbps
Antenna Gain	1,8 dBi
Security Features	WPA2™/WPA™ Personal and Enterprise; 128, 64 bits WEP; MAC Address Filtering; SPI Firewall
OS Requirements (to run the Setup CD)	Windows XP, Vista, or Vista 64-bit edition with latest updates (for Network Magic and Setup Wizard); Mac OS X 10.4 or higher (for Setup Wizard)

Environmental

Dimensions	202 x 34 x 160 mm (8,0" x 1,3" x 6,3")
Weight	362 g (12,8 oz)
Power	12VDC, 1A
Certification	FCC, CE, Telepermit, K.21, UL, CB, Wi-Fi (802.11b/g), WPA™, WPA2™, WMM, Wi-Fi Protected Setup™

Operating Temp.	0 to 40°C (32 to 104°F)
Storage Temp.	-20 to 70°C (-4 to 158°F)
Operating Humidity	10 to 85% Noncondensing
Storage Humidity	5 to 90% Noncondensing

WAG160N v2

Standards	WLAN: 802.11n draft 2.0, 802.11g, 802.11b Ethernet: 802.3, 802.3u ADSL: T1.413i2, G.992.1 (G.DMT), G.992.2 (G.Lite), G.992.3 (ADSL2), G.992.5 (ADSL2+) for Annex A, B, M, L, U-R2 for Annex B
Ports	Power, DSL, Ethernet (1-4)
Buttons	On/Off, Reset, Wi-Fi Protected Setup™
LEDs	Power, Ethernet (1-4), Ethernet WAN, Security, Wireless, DSL, Internet
Cabling Type	CAT5, RJ-11 (for Annex A), RJ-45 (for Annex B)
Antennas	2 Internal
Modulations	802.11b: CCK/QPSK, BPSK 802.11g: OFDM/BPSK, QPSK, 16-QAM, 64-QAM 802.11n: OFDM/BPSK, QPSK, 16-QAM, 64-QAM
Transmit Power	802.11b: 17,0 ± 1,0 dBm 802.11g: 15,0 ± 1,0 dBm 802.11n: 13,0 ± 1,5 dBm
Receive Sensitivity	-80 dBm (typical) @ 11 Mbps -72 dBm (typical) @ 54 Mbps -66 dBm (typical) @ 130 Mbps -63 dBm (typical) @ 270 Mbps
Antenna Gain	2 dBi
Security Features	WPA2™/WPA™ Personal and Enterprise; 128, 64 bits WEP; MAC Address Filtering; SPI Firewall
OS Requirements (to run the Setup CD)	Windows XP, Vista, or Vista 64-bit edition with latest updates (for Network Magic and Setup Wizard); Mac OS X 10.4 or higher (for Setup Wizard)

Environmental

Dimensions	202 x 34 x 160 mm (8,0" x 1,3" x 6,3")
Weight	362 g (12,8 oz)
Power	12VDC, 1A
Certification	FCC, CE, Wi-Fi®, A-Tick, Telepermit, WPA™, WPA2™

Operating Temp.	0 to 40°C (32 to 104°F)
Storage Temp.	-20 to 70°C (-4 to 158°F)
Operating Humidity	10 to 85% Noncondensing
Storage Humidity	5 to 90% Noncondensing

WAG320N

Standards	WLAN: 802.11n draft 2.0, 802.11g, 802.11b, 802.11a Ethernet: 802.3, 802.3u, 802.3ab ADSL: T1.413i2, G.992.1 (G.DMT), G.992.2 (G.Lite), G.992.3 (ADSL2), G.992.5 (ADSL2+) for Annex A, M, L,
Ports	Power, DSL, Ethernet (1-4), USB
Buttons	On/Off, Reset, Wi-Fi Protected Setup™
LEDs	Power, Ethernet (1-4), Ethernet WAN, Security, USB, Wireless, DSL, Internet
Cabling Type	CAT5, RJ-11 (for Annex A)
Antennas	3 Internal
Modulations	802.11a: OFDM/BPSK, QPSK, 16-QAM, 64-QAM 802.11b: CCK/QPSK, BPSK 802.11g: OFDM/BPSK, QPSK, 16-QAM, 64-QAM 802.11n: OFDM/BPSK, QPSK, 16-QAM, 64-QAM
Transmit Power	2,4 GHz: 802.11b: $17,5 \pm 1,5$ dBm Typical @ Normal Temp. Range 802.11g: $17,5 \pm 1,5$ dBm Typical @ Normal Temp. Range Wireless-N 20 MHz: $13,5 \pm 1,5$ dBm Typical @ Normal Temp. Range Wireless-N 40 MHz: $13,5 \pm 1,5$ dBm Typical @ Normal Temp. Range 5 GHz: 802.11a: $13,5 \pm 1,5$ dBm Typical @ Normal Temp. Range Wireless-N 20 MHz: $13,5 \pm 1,5$ dBm Typical @ Normal Temp. Range Wireless-N 40 MHz: $13,5 \pm 1,5$ dBm Typical @ Normal Temp. Range
Receive Sensitivity	-80 dBm (typical) @ 11 Mbps -72 dBm (typical) @ 54 Mbps -66 dBm (typical) @ 130 Mbps -63 dBm (typical) @ 270 Mbps
Antenna Gain	2,4 GHz: RIFA 1 & RIFA 2 & RIFA 3 ≤ 4 dBi (Typical)

5 GHz:	RIFA 1 & RIFA 2 & RIFA 3 $\leq 3,5$ dBi (Typical)
Security Features	WPA2™/WPA™ Personal and Enterprise; 128, 64 bits WEP; MAC Address Filtering; SPI Firewall
OS Requirements	Windows XP, Vista, or Vista 64-bit edition with latest updates (for Network Magic and Setup Wizard); Mac OS X 10.4 or higher (for Setup Wizard)

Environmental

Dimensions	202 x 34 x 160 mm (8,0" x 1,3" x 6,3")
Weight	362 g (12,8 oz)
Power	12VDC, 1,25A
Certification	FCC, CE, Wi-Fi®, A-Tick, Telepermit, WPA™, WPA2™
Operating Temp.	0 to 40°C (32 to 104°F)
Storage Temp.	-20 to 70°C (-4 to 158°F)
Operating Humidity	10 to 85% Noncondensing
Storage Humidity	5 to 90% Noncondensing

Appendix C:

Regulatory Information

European Union

The following information applies if you use the product within the European Union.

Declaration of Conformity with Regard to EU Directive 1999/5/EC (R&TTE Directive)

Compliance Information for 2,4-GHz and 5-GHz Wireless Products Relevant to the EU and Other Countries Following the EU Directive 1999/5/EC (R&TTE Directive)



NOTE: The 5 GHz information does not apply to Wireless-G (802.11g) only products.

Български [Bulgarian]	Това оборудване отговаря на съществените изисквания и приложими клаузи на Директива 1999/5/ЕС.
Česky [Czech]:	Toto zařízení je v souladu se základními požadavky a ostatními odpovídajícími ustanoveními Směrnice 1999/5/EU.
Dansk [Danish]:	Dette udstyr er i overensstemmelse med de væsentlige krav og andre relevante bestemmelser i Direktiv 1999/5/EU.
Deutsch [German]:	Dieses Gerät entspricht den grundlegenden Anforderungen und den weiteren entsprechenden Vorgaben der Richtlinie 1999/5/EU.
Eesti [Estonian]:	See seade vastab direktiivi 1999/5/EÜ olulistele nõuetele ja teistele asjakohastele sätetele.
English:	This equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Español [Spanish]:	Este equipo cumple con los requisitos esenciales así como con otras disposiciones de la Directiva 1999/5/CE.
Ελληνική [Greek]:	Αυτός ο εξοπλισμός είναι σε συμμόρφωση με τις ουσιώδεις απαιτήσεις και άλλες σχετικές διατάξεις της Οδηγίας 1999/5/ΕΚ.
Français [French]:	Cet appareil est conforme aux exigences essentielles et aux autres dispositions pertinentes de la Directive 1999/5/EC.

Íslenska [Icelandic]:	Þetta tæki er samkvæmt grunnkröfum og öðrum viðeigandi ákvæðum Tilskipunar 1999/5/EC.
Italiano [Italian]:	Questo apparato è conforme ai requisiti essenziali ed agli altri principi sanciti dalla Direttiva 1999/5/CE.
Latviski [Latvian]:	Šī iekārtā atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių [Lithuanian]:	Šis įrenginys tenkina 1999/5/EB Direktyvos esminius reikalavimus ir kitas šios direktyvos nuostatas.
Nederlands [Dutch]:	Dit apparaat voldoet aan de essentiële eisen en andere van toepassing zijnde bepalingen van de Richtlijn 1999/5/EC.
Malta [Maltese]:	Dan l-apparat huwa konformi mal-ħtiġiet essenzjali u l-provedimenti l-oħra rilevanti tad-Direttiva 1999/5/EC.
Magyar [Hungarian]:	Ez a készülék teljesíti az alapvető követelményeket és más 1999/5/EK irányelvben meghatározott vonatkozó rendelkezéseket.
Norsk [Norwegian]:	Dette utstyret er i samsvar med de grunnleggende krav og andre relevante bestemmelser i EU-direktiv 1999/5/EF.
Polski [Polish]:	Urządzenie jest zgodne z ogólnymi wymaganiami oraz szczególnymi warunkami określonymi Dyrektywą UE: 1999/5/EC.
Português [Portuguese]:	Este equipamento está em conformidade com os requisitos essenciais e outras provisões relevantes da Directiva 1999/5/EC.
Română [Romanian]:	Acest echipament este în conformitate cu cerințele esențiale și cu alte prevederi relevante ale Directivei 1999/5/EC.
Slovensko [Slovenian]:	Ta naprava je skladna z bistvenimi zahtevami in ostalimi relevantnimi pogoji Direktive 1999/5/EC.
Slovensky [Slovak]:	Toto zariadenie je v zhode so základnými požiadavkami a inými príslušnými nariadeniami direktív: 1999/5/EC.
Suomi [Finnish]:	Tämä laite täyttää direktiivin 1999/5/EY olenaiset vaatimukset ja on siinä asetettujen muiden laitteita koskevien määräysten mukainen.
Svenska [Swedish]:	Denna utrustning är i överensstämmelse med de väsentliga kraven och andra relevanta bestämmelser i Direktiv 1999/5/EC.

For all products, the Declaration of Conformity (DoC) is available through one or more of these options:

- A pdf file is included on the product's CD.
- A print copy is included with the product.
- A pdf file is available on the product's webpage. Visit www.linksysbycisco.com/international and select your country or region. Then select your product.

If you need any other technical documentation, see the "Technical Documents" on www.linksysbycisco.com/international section, as shown later in this appendix.

Non-Wireless Equipment (ADSL Modems/Gateways)

The following standards were applied during the assessment of the product against the requirements of the Directive 1999/5/EC:

- EMC: EN 55 022 and EN 55 024
- Safety: EN 60950-1

CE Marking

For the Linksys products such as the ADSL modems/gateways, the following CE mark is added to the equipment.



Wireless Equipment (Wireless-N/G/A/B Products)

The following standards were applied during the assessment of the product against the requirements of the Directive 1999/5/EC:

- Radio: EN 300 328 and/or EN 301 893 as applicable
- EMC: EN 301 489-1, EN 301 489-17
- Safety: EN 60950-1 and either EN 50385 or EN 50371

For the Linksys Wireless-N, -G, -B, and/or -A products, the following CE mark, and class 2 identifier are added to the equipment.



National Restrictions

This product may be used in all EU countries (and other countries following the EU directive 1999/5/EC) without any limitation except for the countries mentioned below:

Ce produit peut être utilisé dans tous les pays de l'UE (et dans tous les pays ayant transposés la directive 1999/5/CE) sans aucune limitation, excepté pour les pays mentionnés ci-dessous:

Questo prodotto è utilizzabile in tutte i paesi EU (ed in tutti gli altri paesi che seguono le direttive EU 1999/5/EC) senza Wireless ADSL2+ Modem Router

nessuna limitazione, eccetto per i paesi menzionati di seguito:

Das Produkt kann in allen EU Staaten ohne Einschränkungen eingesetzt werden (sowie in anderen Staaten die der EU Direktive 1999/5/CE folgen) mit Ausnahme der folgenden aufgeführten Staaten:

In the majority of the EU and other European countries, the 2,4- and 5-GHz bands have been made available for the use of wireless local area networks (LANs). Later in this document you will find an overview of countries in which additional restrictions or requirements or both are applicable.

The requirements for any country may evolve. Linksys recommends that you check with the local authorities for the latest status of their national regulations for both the 2,4- and 5-GHz wireless LANs.

The following countries have restrictions and/or requirements in addition to those given in the table labeled "Overview of Regulatory Requirements for Wireless LANs":

Denmark

In Denmark, the band 5150 - 5350 MHz is also allowed for outdoor usage.

I Danmark må frekvensbåndet 5150 - 5350 også anvendes udendørs.

France

For 2,4 GHz, the product should not be used outdoors in the band 2454 - 2483,5 MHz. There are no restrictions when used in other parts of the 2,4 GHz band OR when used indoors. Check <http://www.arcep.fr/> for more details.

Pour la bande 2,4 GHz, l'équipement ne doit pas être utilisé en extérieur dans la bande 2454- 2483,5 MHz. Il n'y a aucune restriction pour son utilisation dans d'autres parties de la bande des 2,4 GHz ainsi que pour une utilisation en intérieur. Consultez <http://www.arcep.fr/> pour de plus amples détails.

Italy

This product meets the National Radio Interface and the requirements specified in the National Frequency Allocation Table for Italy. Unless this 2,4-GHz wireless LAN product is operating within the boundaries of the owner's property, its use requires a "general authorization". Bands 5150-5350 MHz and 5470-5725 MHz require general authorization if used outdoors. Please check <http://www.comunicazioni.it/it/> for more details.

Questo prodotto è conforme alla specifiche di Interfaccia Radio Nazionali e rispetta il Piano Nazionale di ripartizione delle frequenze in Italia. Se non viene installato all'interno del proprio fondo, l'utilizzo di prodotti Wireless LAN a

2,4 GHz richiede una "Autorizzazione Generale". L'utilizzo all'aperto delle bande di frequenza 5150-5350 MHz e 5470-5725 MHz è soggetto ad autorizzazione generale. Consultare <http://www.comunicazioni.it/it/> per maggiori dettagli.

Latvia

The outdoor usage of the 2,4 GHz band requires an authorization from the Electronic Communications Office. Please check <http://www.esd.lv> for more details.

2,4 GHz frekveču joslas izmantošanai ārpus telpām nepieciešama atļauja no Elektronisko sakaru direkcijas.

Vairāk informācijas: <http://www.esd.lv>.

Notes:

1. Although Norway, Switzerland and Liechtenstein are not EU member states, the EU Directive 1999/5/EC has also been implemented in those countries.
2. The regulatory limits for maximum output power are specified in EIRP. The EIRP level (in dBm) of a device can be calculated by adding the gain of the antenna used (specified in dBi) to the output power available at the connector (specified in dBm).

Product Usage Restrictions

This product is designed for indoor usage only. Outdoor usage is not recommended, unless otherwise noted. Outdoor usage may even be prohibited (see below).

2,4 GHz Restrictions

This product is designed for use with the standard, integral or dedicated (external) antenna(s) that is/are shipped together with the equipment. However, some applications may require the antenna(s), if removable, to be separated from the product and installed remotely from the device by using extension cables. For these applications, Linksys offers an R SMA extension cable (AC9SMA) and an R-TNC extension cable (AC9TNC). Both of these cables are 9 meters long and have a cable loss (attenuation) of 5 dB. To compensate for the attenuation, Linksys also offers higher gain antennas, the HGA7S (with R-SMA connector) and HGA7T (with R-TNC connector). These antennas have a gain of 7 dBi and may only be used with either the R-SMA or R-TNC extension cable.

Combinations of extension cables and antennas resulting in a radiated power level exceeding 20 dBm (100 mW) EIRP (2,4 GHz band) are illegal.

5 GHz Restrictions

Products that operate in any frequency within 5150 to 5350 MHz are restricted to indoor use only, in all European countries except Denmark.

Third-Party Software or Firmware

The use of software or firmware not supported/provided by Linksys may result that the equipment is no longer compliant with the regulatory requirements.

Technical Documents on www.linksysbycisco.com/international

Follow these steps to access technical documents:

1. Enter <http://www.linksysbycisco.com/international> in your web browser.
2. Select the country or region in which you live.
3. Click the **Products** tab.
4. Select the appropriate product category.
5. Select the product sub-category, if necessary.
6. Select the product.
7. Select the type of documentation you want from the More Information section. The document will open in PDF format if you have Adobe Acrobat installed on your computer.



NOTE: If you have questions regarding the compliance of this product or you cannot find the information you need, please contact your local sales office or visit www.linksysbycisco.com/international

User Information for Consumer Products Covered by EU Directive 2002/96/EC on Waste Electric and Electronic Equipment (WEEE)

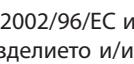
This document contains important information for users with regards to the proper disposal and recycling of Linksys products. Consumers are required to comply with this notice for all electronic products bearing the following symbol:



English - Environmental Information for Customers in the European Union

European Directive 2002/96/EC requires that the equipment bearing this symbol  on the product and/or its packaging must not be disposed of with unsorted municipal waste. The symbol indicates that this product should be disposed of separately from regular household waste streams. It is your responsibility to dispose of this and other electric and electronic equipment via designated collection facilities appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. For more detailed information about the disposal of your old equipment, please contact your local authorities, waste disposal service, or the shop where you purchased the product.

Български (Bulgarian) - Информация относно опазването на околната среда за потребители в Европейския съюз

Европейска директива 2002/96/EC изисква уредите, носещи този символ  върху изделието и/или опаковката му, да не се изхвърлят с несортирани битови отпадъци. Символът обозначава, че изделието трябва да се изхвърля отдельно от сметосябирането на обикновените битови отпадъци. Ваша е отговорността този и другите електрически и електронни уреди да се изхвърлят в предварително определени от държавните или общински органи специализирани пунктове за събиране. Правилното изхвърляне и рециклиране ще спомогнат да се предотвратят евентуални вредни за околната среда и здравето на населението последствия. За по-подробна информация относно изхвърлянето на вашите стари уреди се обрънете към местните власти, службите за сметосябиране или магазина, от който сте закупили уреда.

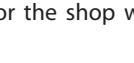
Čeština (Czech) - Informace o ochraně životního prostředí pro zákazníky v zemích Evropské unie

Evropská směrnice 2002/96/ES zakazuje, aby zařízení označené tímto symbolem  na produktu anebo na obalu bylo likvidováno s netříděným komunálním odpadem. Tento symbol udává, že daný produkt musí být likvidován odděleně od běžného komunálního odpadu. Odpovídáte za likvidaci tohoto produktu a dalších elektrických a elektronických zařízení prostřednictvím určených sběrných míst stanovených vládou nebo místními úřady. Správná likvidace a recyklace pomáhá předcházet potenciálním negativním dopadům na životní prostředí a lidské zdraví. Podrobnější informace o likvidaci starého vybavení si laskavě vyžádejte od místních úřadů, podniku zabývajícího se likvidací komunálních odpadů nebo obchodu, kde jste produkt zakoupili.

Dansk (Danish) - Miljøinformation for kunder i EU

EU-direktiv 2002/96/EF kræver, at udstyr der bærer dette symbol  på produktet og/eller emballagen ikke må bortsaffes som usorteret kommunalt affald. Symbolbetegnelse betyder, at dette produkt skal bortsaffes adskilt fra det almindelige husholdningsaffald. Det er dit ansvar at bortsaffe dette og andet elektrisk og elektronisk udstyr via bestemte indsamlingssteder udpeget af staten eller de lokale myndigheder. Korrekt bortsaffelse og genbrug vil hjælpe med til at undgå mulige skader for miljøet og menneskers sundhed. Kontakt venligst de lokale myndigheder, renoveringstjenesten eller den butik, hvor du har købt produktet, angående mere detaljeret information om bortsaffelse af dit gamle udstyr.

Deutsch (German) - Umweltinformation für Kunden innerhalb der Europäischen Union

Die Europäische Richtlinie 2002/96/EC verlangt, dass technische Ausrüstung, die direkt am Gerät und/oder an der Verpackung mit diesem Symbol versehen ist , nicht zusammen mit unsortiertem Gemeindeabfall entsorgt werden darf. Das Symbol weist darauf hin, dass das Produkt von regulärem Haushaltmüll getrennt entsorgt werden sollte. Es liegt in Ihrer Verantwortung, dieses Gerät und andere elektrische und elektronische Geräte über die dafür zuständigen und von der Regierung oder örtlichen Behörden dazu bestimmten Sammelstellen zu entsorgen. Ordnungsgemäßes Entsorgen und Recyceln trägt dazu bei, potentielle negative Folgen für Umwelt und die menschliche Gesundheit zu vermeiden. Wenn Sie weitere Informationen zur Entsorgung Ihrer Altgeräte benötigen, wenden Sie sich bitte an die örtlichen Behörden oder städtischen Entsorgungsdienste oder an den Händler, bei dem Sie das Produkt erworben haben.

Eesti (Estonian) - Keskkonnaalane informatsioon Euroopa Liidus asuvatele klientidele

Euroopa Liidu direktiivi 2002/96/EÜ nõuete kohaselt on seadmeid, millel on tootel või pakendil käesolev sümbol , keelatud kõrvaldada koos sorteerimata olmehäätmeguga. See sümbol näitab, et toode tuleks kõrvaldada eraldi tavalistest olmehäätmeveogudest. Olete kohustatud kõrvaldamama käesoleva ja ka muud elektri- ja elektroonikaseadmed riigi või kohalike ametiasutuste poolt ette nähtud kogumispunktide kaudu. Seadmete korrektna kõrvaldamine ja ringlussevõtt aitab vältida võimalikke negatiivseid tagajärgi keskkonnale ning inimestele tervisele. Vanade seadmete kõrvaldamise kohta täpsema informatsiooni saamiseks võtke palun ühendust kohalike ametiasutustega, jäätmeäitusfirmaga või kauplusega, kust te toote ostsite.

Español (Spanish) - Información medioambiental para clientes de la Unión Europea

La Directiva 2002/96/CE de la UE exige que los equipos que lleven este símbolo  en el propio aparato y/o en su embalaje no deben eliminarse junto con otros residuos urbanos no seleccionados. El símbolo indica que el producto en cuestión debe separarse de los residuos domésticos convencionales con vistas a su eliminación. Es responsabilidad suya desechar este y cualesquier otros aparatos eléctricos y electrónicos a través de los puntos de recogida que ponen a su disposición el gobierno y las autoridades locales. Al desechar y reciclar correctamente estos aparatos estará contribuyendo a evitar posibles consecuencias negativas para el medio ambiente y la salud de las personas. Si desea obtener información más detallada sobre la eliminación segura de su aparato usado, consulte a las autoridades locales, al servicio de recogida y eliminación de residuos de su zona o pregunte en la tienda donde adquirió el producto.

Ελληνικά (Greek) - Στοιχεία περιβαλλοντικής προστασίας για πελάτες εντός της Ευρωπαϊκής Ένωσης

Σύμφωνα με την Κοινοτική Οδηγία 2002/96/EC, ο εξοπλισμός που φέρει αυτό το σύμβολο  στο προϊόν ή/και τη συσκευασία του δεν πρέπει να απορρίπτεται μαζί με τα μη διαχωρισμένα αστικά απορρίμματα. Το σύμβολο υποδεικνύει ότι αυτό το προϊόν θα πρέπει να απορρίπτεται ξεχωριστά από τα συνήθη οικιακά απορρίμματα. Είστε υπεύθυνος για την απόρριψη του παρόντος και άλλου ηλεκτρικού και ηλεκτρονικού εξοπλισμού μέσω των καθορισμένων εγκαταστάσεων συγκέντρωσης απορριμάτων, οι οποίες ορίζονται από το κράτος ή τις αρμόδιες τοπικές αρχές. Η σωστή απόρριψη και ανακύκλωση συμβάλλει στην πρόληψη ενδεχόμενων αρνητικών επιπτώσεων στο περιβάλλον και την υγεία. Για περισσότερες πληροφορίες σχετικά με την απόρριψη του παλαιού σας εξοπλισμού, επικοινωνήστε με τις τοπικές αρχές, τις υπηρεσίες αποκομιδής απορριμάτων ή το κατάστημα από το οποίο αγοράσατε το προϊόν.

Français (French) - Informations environnementales pour les clients de l'Union européenne

La directive européenne 2002/96/CE exige que l'équipement sur lequel est apposé ce symbole  sur le produit et/ou son emballage ne soit pas jeté avec les autres ordures ménagères. Ce symbole indique que le produit doit être éliminé dans un circuit distinct de celui pour les déchets des ménages. Il est de votre responsabilité de jeter ce matériel ainsi que tout autre matériel électrique ou électronique par les moyens de collecte indiqués par le gouvernement et les pouvoirs publics des collectivités territoriales. L'élimination et le recyclage en bonne et due forme ont pour but de lutter contre l'impact néfaste potentiel de ce type de produits sur l'environnement et la santé publique. Pour plus d'informations sur le mode d'élimination de votre ancien équipement, veuillez prendre contact avec les pouvoirs publics locaux, le service de traitement des déchets, ou l'endroit où vous avez acheté le produit.

Italiano (Italian) - Informazioni relative all'ambiente per i clienti residenti nell'Unione Europea

La direttiva europea 2002/96/EC richiede che le apparecchiature contrassegnate con questo simbolo  sul prodotto e/o sull'imballaggio non siano smaltite insieme ai rifiuti urbani non differenziati. Il simbolo indica che questo prodotto non deve essere smaltito insieme ai normali rifiuti domestici. È responsabilità del proprietario smaltire sia questi prodotti sia le altre apparecchiature elettriche ed elettroniche mediante le specifiche strutture di raccolta indicate dal governo o dagli enti pubblici locali. Il corretto smaltimento ed il riciclaggio aiuteranno a prevenire conseguenze potenzialmente negative per l'ambiente e per la salute dell'essere umano. Per ricevere informazioni più dettagliate circa lo smaltimento delle vecchie apparecchiature in Vostro possesso, Vi invitiamo a contattare gli enti pubblici di competenza, il servizio di smaltimento rifiuti o il negozio nel quale avete acquistato il prodotto.

Latviešu valoda (Latvian) - Ekoloģiska informācija klientiem Eiropas Savienības jurisdikcijā

Direktīvā 2002/96/EK ir prasība, ka aprīkojumu, kam pievienota zīme  uz paša izstrādājuma vai uz tā iesaiņojuma, nedrīkst izmest nešķirotā veidā kopā ar komūnālajiem atkritumiem (tiem, ko rada vietēji iedzīvotāji un uzņēmumi). Šī zīme nozīmē to, ka šī ierīce ir jāizmet atkritumos tā, lai tā nenonāktu kopā ar parasti mājsaimniecības atkritumiem. Jūsu pienākums ir šo un citas elektriskas un elektroniskas ierīces izmest atkritumos, izmantojot īpašus atkritumu savākšanas veidus un līdzekļus, ko nodrošina valsts un pašvaldību iestādes. Ja izmēšana atkritumos un pārstrāde tiek veikta pareizi, tad mazinās iespējamais kaitējums dabai un cilvēku veselībai. Sīkākas ziņas par novecojuša aprīkojuma izmēšanu atkritumos jūs varat saņemt vietējā pašvaldībā, atkritumu savākšanas dienestā, kā arī veikalā, kur iegādājāties šo izstrādājumu.

Lietuvškai (Lithuanian) - Aplinkosaugos informacija, skirta Europos Sajungos vartotojams

Europos direktyva 2002/96/EC numato, kad įrangos, kuri ir  kurios pakuotė yra pažymėta šiuo simboliu (iveskite simbolį), negalima šalinti kartu su nerūšiuotomis komunalinėmis atliekomis. Šis simbolis rodo, kad gaminj reikia šalinti atskirai nuo bendro buitinių atliekų srauto. Jūs privalote užtikrinti, kad ši ir kita elektros ar elektroninė įranga būtų šalinama per tam tikras nacionalinės ar vietinės valdžios nustatytas atliekų rinkimo sistemas. Tinkamai šalinant ir perdirlbant atliekas, bus išvengta galimos žalos aplinkai ir žmonių sveikatai. Daugiau informacijos apie jūsų senos įrangos šalinimą gali pateikti vietinės valdžios institucijos, atliekų šalinimo tarnybos arba parduotuvės, kuriose įsigijote tą gaminį.

Malti (Maltese) - Informazzjoni Ambjentali għal Klijenti fl-Unjoni Ewropea

Id-Direttiva Ewropea 2002/96/KE titlob li t-tagħmir li jkun fiċċi is-simbolu  fuq il-prodott u/jew fuq l-ippakkjar ma jistax jintrema ma' skart municipali li ma ġiex isseparat. Is-simbolu jindika li dan il-prodott għandu jintrema separatament minn ma' l-iskart domestiku regolari. Hija responsabbiltà tiegħek li tarmi dan it-tagħmir u kull tagħmir ieħor ta' l-elettriku u elettroniku permezz ta' facilitajiet ta' ġbir appuntati apposta mill-gvern jew mill-awtoritatijiet lokali. Ir-rimi b'mod korrett u r-riċċiklaġġ jgħin jippreżjeni konsegwenzi negattivi potenzjali għall-ambjent u għas-saħħha tal-bniedem. Għal aktar informazzjoni dettaljata dwar ir-rimi tat-tagħmir antik tiegħek, jekk jogħġibok ikkuntattja lill-awtoritatijiet lokali tiegħek, is-servizzi għar-riġi ta' l-iskart, jew il-ħanut minn fejn xtrajt il-prodott.

Magyar (Hungarian) - Környezetvédelmi információ az európai uniós vásárlók számára

A 2002/96/EC számú európai uniós irányelv megkívánja, hogy azokat a termékeket, amelyeken, és/vagy amelyek csomagolásán az alábbi címke  megjelenik, tilos a többi szelektálattal lakossági hulladékkel együtt kidobni. A címke azt jelöli, hogy az adott termék kidobásakor a szokványos háztartási hulladékelszállítási rendszerektől elkülönített eljárás kell alkalmazni. Az Ön felelőssége, hogy ezt, és más elektromos és elektronikus berendezéseit a kormányzati vagy a helyi hatóságok által kijelölt gyűjtőrendszeren keresztül számlalja fel. A megfelelő hulladékfeldolgozás segít a környezetre és az emberi egészségre potenciálisan ártalmas negatív hatások megelőzésében. Ha elavult berendezéseinek felszámolásához további részletes információra van szüksége, kérjük, lépjön kapcsolatba a helyi hatóságokkal, a hulladékfeldolgozási szolgálattal, vagy azzal üzettel, ahol a terméket vásárolta.

Nederlands (Dutch) - Milieu-informatie voor klanten in de Europese Unie

De Europese Richtlijn 2002/96/EC schrijft voor dat apparatuur die is voorzien van dit symbool  op het product of de verpakking, niet mag worden ingezameld met niet-gescheiden huishoudelijk afval. Dit symbool geeft aan dat het product apart moet worden ingezameld. U bent zelf verantwoordelijk voor de vernietiging van deze en andere elektrische en elektronische apparatuur via de daarvoor door de landelijke of plaatselijke overheid aangewezen inzamelingskanalen. De juiste vernietiging en recycling van deze apparatuur voorkomt mogelijke negatieve gevolgen voor het milieu en de gezondheid. Voor meer informatie over het vernietigen van uw oude apparatuur neemt u contact op met de plaatselijke autoriteiten of afvalverwerkingsdienst, of met de winkel waar u het product hebt aangeschaft.

Norsk (Norwegian) - Miljøinformasjon for kunder i EU

EU-direktiv 2002/96/EF krever at utstyr med følgende symbol  avbildet på produktet og/eller pakningen, ikke må kastes sammen med usortert avfall. Symbolet indikerer at dette produktet skal håndteres atskilt fra ordinær avfallsinnsamling for husholdningsavfall. Det er ditt ansvar å kvitte deg med dette produktet og annet elektrisk og elektronisk avfall via egne innsamlingsordninger slik myndighetene eller kommunene bestemmer. Korrekt avfallshåndtering og gjenvinning vil være med på å forhindre mulige negative konsekvenser for miljø og helse. For nærmere informasjon om håndtering av det kasserte utstyret ditt, kan du ta kontakt med kommunen, en innsamlingsstasjon for avfall eller butikken der du kjøpte produktet.

Polski (Polish) - Informacja dla klientów w Unii Europejskiej o przepisach dotyczących ochrony środowiska

Dyrektwa Europejska 2002/96/EC wymaga, aby sprzęt oznaczony symbolem  znajdującym się na produkcie i/ lub jego opakowaniu nie był wyrzucany razem z innymi niesortowanymi odpadami komunalnymi. Symbol ten wskazuje, że produkt nie powinien być usuwany razem ze zwykłymi odpadami z gospodarstw domowych. Na Państwu spoczywa obowiązek wyrzucania tego i innych urządzeń elektrycznych oraz elektronicznych w punktach odbioru wyznaczonych przez władze krajowe lub lokalne. Pozbywanie się sprzętu we właściwy sposób i jego recykling pomogą zapobiec potencjalnie negatywnym konsekwencjom dla środowiska i zdrowia ludzkiego. W celu uzyskania szczegółowych informacji o usuwaniu starego sprzętu, prosimy zwrócić się do lokalnych władz, służb oczyszczania miasta lub sklepu, w którym produkt został nabity.

Português (Portuguese) - Informação ambiental para clientes da União Europeia

A Directiva Europeia 2002/96/CE exige que o equipamento que exibe este símbolo ☑ no produto e/ou na sua embalagem não seja eliminado junto com os resíduos municipais não separados. O símbolo indica que este produto deve ser eliminado separadamente dos resíduos domésticos regulares. É da sua responsabilidade eliminar este e qualquer outro equipamento eléctrico e electrónico através das instalações de recolha designadas pelas autoridades governamentais ou locais. A eliminação e reciclagem correctas ajudarão a prevenir as consequências negativas para o ambiente e para a saúde humana. Para obter informações mais detalhadas sobre a forma de eliminar o seu equipamento antigo, contacte as autoridades locais, os serviços de eliminação de resíduos ou o estabelecimento comercial onde adquiriu o produto.

Română (Romanian) - Informații de mediu pentru clienții din Uniunea Europeană

Directiva europeană 2002/96/CE impune ca echipamentele care prezintă acest simbol ☑ pe produs și/sau pe ambalajul acestuia să nu fie casate împreună cu gunoiul menajer municipal. Simbolul indică faptul că acest produs trebuie să fie casat separat de gunoiul menajer obișnuit. Este responsabilitatea dvs. să casați acest produs și alte echipamente electrice și electronice prin intermediul unităților de colectare special desemnate de guvern sau de autoritățile locale. Casarea și reciclarea corecte vor ajuta la prevenirea potențialelor consecințe negative asupra sănătății mediului și a oamenilor. Pentru mai multe informații detaliate cu privire la casarea acestui echipament vechi, contactați autoritățile locale, serviciul de salubrizare sau magazinul de la care ați achiziționat produsul.

Slovenčina (Slovak) - Informácie o ochrane životného prostredia pre zákazníkov v Európskej únii

Podľa európskej smernice 2002/96/ES zariadenie s týmto symbolom ☑ na produkte a/alebo jeho balení nesmie byť likvidované spolu s netriedeným komunálnym odpadom. Symbol znamená, že produkt by sa mal likvidovať oddelenie od bežného odpadu z domácností. Je vašou povinnosťou likvidovať toto i ostatné elektrické a elektronické zariadenia prostredníctvom špecializovaných zberných zariadení určených vládou alebo miestnymi orgánmi. Správna likvidácia a recyklácia pomôže zabrániť prípadným negatívnym dopadom na životné prostredie a zdravie ľudí. Ak máte záujem o podrobnejšie informácie o likvidácii starého zariadenia, obráťte sa, prosím, na miestne orgány, organizácie zaobrajúce sa likvidáciou odpadov alebo obchod, v ktorom ste si produkt zakúpili.

Slovenščina (Slovene) - Okoljske informacije za stranke v Evropski uniji

Evropska direktiva 2002/96/ES prepoveduje odlaganje opreme s tem simbolom ☑ – na izdelku in/ali na embalaži z nesortiranimi komunalnimi odpadki. Ta simbol opozarja, da je treba izdelek zavreči ločeno od preostalih gospodinjskih odpadkov. Vaša odgovornost je, da to in preostalo električno in elektronsko opremo oddate na posebna zbirališča, ki jih določijo državne ustanove ali lokalne oblasti. S pravilnim odlaganjem in recikliranjem boste preprečili morebitne škodljive vplive na okolje in zdravje ljudi. Če želite izvedeti več o odlaganju stare opreme, se obrnite na lokalne oblasti, odlagališče odpadkov ali trgovino, kjer ste izdelek kupili.

Suomi (Finnish) - Ympäristöä koskevia tietoja EU-alueen asiakkaille

EU-direktiivi 2002/96/EY edellyttää, että jos laitteistossa on tämä symboli ☑ itse tuotteessa ja/tai sen pakkauksessa, laitteisto ei saa hävittää lajitelemattoman yhdyskuntajätteen mukana. Symboli merkitsee sitä, että tämä tuote on hävitettävä erillään tavallisesta kotitalousjätteestä. Sinun vastuullasi on hävittää tämä elektroniikkatuote ja muut vastaavat elektroniikkatuotteet viemällä tuote tai tuotteet viranomaisten määräämään keräyspisteesseen. Laitteiston oikea hävittäminen estää mahdolliset kielteiset vaikutukset ympäristöön ja ihmisten terveyteen. Lisätietoja vanhan laitteiston oikeasta hävitystavasta saa paikallisia viranomaisilta, jätteenhävityspalvelusta tai siitä myymälästä, josta ostit tuotteen.

Svenska (Swedish) - Miljöinformation för kunder i Europeiska unionen

Det europeiska direktivet 2002/96/EC kräver att utrustning med denna symbol ☑ på produkten och/eller förpackningen inte får kastas med osorterat kommunalt avfall. Symbolen visar att denna produkt bör kastas efter att den avskiljs från vanligt hushållsavfall. Det faller på ditt ansvar att kasta denna och annan elektrisk och elektronisk utrustning på fastställda insamlingsplatser utsedda av regeringen eller lokala myndigheter. Korrekt kassering och återvinning skyddar mot eventuella negativa konsekvenser för miljön och personhälsa. För mer detaljerad information om kassering av din gamla utrustning kontaktar du dina lokala myndigheter, avfallshanteringen eller butiken där du köpte produkten.



WEB: For additional information, please visit www.linksysbycisco.com/international

Australia

The following information applies if you use the product within Australia.

Safety Notice



WARNING: To ensure compliance with exposure limits to radiofrequency fields, the antenna of the device should be no closer than 20 cm from the body during use.

New Zealand

The following information applies if you use the product within New Zealand.

Telepermit Statement

The cabling between the phone port and the phone shall not exceed 100 metres.

PTC200 General Warning

The grant of a Telepermit for any item of terminal equipment indicates only that Telecom has accepted that the item complies with minimum conditions for connection to its network. It indicates no endorsement of the product by Telecom, nor does it provide any sort of warranty. Above all, it provides no assurance that any item will work correctly in all respects with another item of Telepermitted equipment of a different make or model, nor does it imply that any product is compatible with all of Telecom's network services.

Wireless Connectivity Security on Cisco-Linksys ADSL2+ Devices

Setting up the security of the wireless connection associated with ADSL2+ device is the user's responsibility. Telecom will take no responsibility for charges made to user's accounts due to poorly organized wireless security allowing unknown users to connect to the Internet via this device. Do not complain to the Telecom Fault Service or Jetstream Helpdesk should this occur.

General Warning for Cisco-Linksys ADSL2+ Devices and ADSL2+ Capability

This device has been tested and found suitable to connect to the Telecom ADSL2+ capability. This indicates only that Telecom has accepted that this device complies with the spectrum management plan for ADSL2+ on copper cable and with simple voiceband compatibility tests included in PTC273. It does not indicate that this device is fully compatible with all services accessed via the ADSL2+ capability. Contact the supplier of the device when issues occur. Do not call the Telecom Fault Service or the Jetstream Helpdesk.

Cisco-Linksys ADSL2+ Devices on Long Lines

ADSL2+ devices may not achieve the type of "high speed" operation expected when attached to a line that is longer than intended by the ITU-T Rec. G.996.1 ADSL standard i.e. >3 km of 0.4mm cable or a shorter cable length with several tails or multiples. If the device is installed in such conditions and does not give the expected "download" performance, then do not refer the matter to the Telecom Fault Service or ADSL Helpdesk.

United States of America

The following information applies if you use the product within the United States of America.

FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This product has been tested and complies with the specifications for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used according to the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which is found by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment or devices
- Connect the equipment to an outlet other than the receiver's
- Consult a dealer or an experienced radio/TV technician for assistance

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. IEEE 802.11b or 802.11g operation of this product in the USA is firmware-limited to channels 1 through 11.

FCC Part 68 Statement

This equipment complies with Part 68 of the FCC Rules. A label is attached to the equipment that contains, among other information, its FCC registration number and ringer equivalence number. If requested, this information must be provided to the telephone company.

This equipment uses the following USOC Jack: RJ-11.

An FCC compliant telephone cord and modular plug is provided with this equipment. This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack, which is FCC Part 68 compliant. Connection to the telephone network should be made by using the standard modular telephone jack.

The REN is useful to determine the quantity of devices that may be connected to the telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum of RENs should not exceed 5. To be certain of the number of devices that may be connected to the line, as determined by the total RENs, contact the telephone company to determine the maximum REN for the calling area.

If this equipment causes harm to the telephone network, the telephone company may discontinue your service temporarily. If advance notice is not practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice in order for you to make the necessary modifications in order to maintain uninterrupted service.

In the event this equipment should fail to operate properly, disconnect the unit from the telephone line. Try using another FCC approved device in the same telephone jack. If the trouble persists, call the telephone company repair service bureau. If the trouble does not persist and appears to be with this unit, disconnect the unit from the telephone line and discontinue use of the unit until it is repaired. Please note that the telephone company may ask that you disconnect the equipment from the telephone network until the problem has been corrected or until you are sure that the equipment is not malfunctioning. The user must use the accessories and cables supplied by the manufacturer to get optimum performance from the product.

No repairs may be done by the customer. If trouble is experienced with this equipment, please contact your authorized support provider for repair and warranty information. If the trouble is causing harm to the telephone network, the telephone company may request you remove the equipment from the network until the problem is resolved. This equipment cannot be used on telephone company provided coin service. Connection to Party Line Service is subject to state tariffs.

Safety Notices



WARNING: To reduce the risk of fire, use only No.26 AWG or larger telecommunication line cord.



WARNING: Do not use this product near water, for example, in a wet basement or near a swimming pool.



WARNING: Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.



WARNING: This equipment will be inoperable when main power fails.



WARNING: To ensure compliance with exposure limits to radiofrequency fields, the antenna of the device should be no closer than 20 cm from the body during use.

Canada

The following information applies if you use the product within Canada.

Industry Canada Statement

This device complies with Industry Canada ICES-003 and RSS210 rules.

Operation is subject to the following two conditions:

1. This device may not cause interference and
2. This device must accept any interference, including interference that may cause undesired operation of the device. This device has been designed to operate with an antenna having a maximum gain of 2dBi. Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the EIRP is not more than required for successful communication.

Industry Canada Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Avis d'Industrie Canada

Cet appareil est conforme aux normes NMB003 et RSS210 d'Industrie Canada.

L'utilisation de ce dispositif est autorisée seulement aux conditions suivantes :

1. il ne doit pas produire de brouillage et
2. il doit accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif. Le dispositif a été conçu pour fonctionner avec une antenne ayant un gain maximum de 2 dBi. Les règlements d'Industrie Canada interdisent strictement l'utilisation d'antennes dont le gain est supérieur à cette limite. L'impédance requise de l'antenne est de 50 ohms.

Afin de réduire le risque d'interférence aux autres utilisateurs, le type d'antenne et son gain doivent être choisis de façon à ce que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne soit pas supérieure au niveau requis pour obtenir une communication satisfaisante.

Avis d'Industrie Canada concernant l'exposition aux radiofréquences :

Ce matériel est conforme aux limites établies par IC en matière d'exposition aux radiofréquences dans un environnement non contrôlé. Ce matériel doit être installé et utilisé à une distance d'au moins 20 cm entre l'antenne et le corps de l'utilisateur.

L'émetteur ne doit pas être placé près d'une autre antenne ou d'un autre émetteur, ou fonctionner avec une autre antenne ou un autre émetteur.

Wireless Disclaimer

The maximum performance for wireless is derived from IEEE Standard 802.11 specifications. Actual performance can vary, including lower wireless network capacity, data throughput rate, range and coverage. Performance depends on many factors, conditions and variables, including distance from the access point, volume of network traffic, building materials and construction, operating system used, mix of wireless products used, interference and other adverse conditions.

Avis de non-responsabilité concernant les appareils sans fil

Les performances maximales pour les réseaux sans fil sont tirées des spécifications de la norme IEEE 802.11. Les performances réelles peuvent varier, notamment en fonction de la capacité du réseau sans fil, du débit de la transmission de données, de la portée et de la couverture. Les performances dépendent de facteurs, conditions et variables multiples, en particulier de la distance par rapport au point d'accès, du volume du trafic réseau, des matériaux utilisés dans le bâtiment et du type de construction, du système d'exploitation et de la combinaison de produits sans fil utilisés, des interférences et de toute autre condition défavorable.